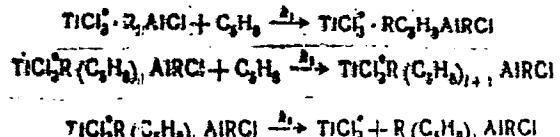


L 60199-63

ACCESSION NR: AT5019602

the elementary steps of formation of active catalytic centers



n_0 is the actual initial isoprene concentration in the system in mol/l, n_0 is the total concentration of TiCl_3 molecules in mol/l, and K is the equilibrium constant of the isoprene polymerization reaction. The overall apparent activation energy of isoprene polymerization is 14 kcal/mol. For 25-90% conversion level, the actual kinetic expression for isoprene polymerization is

$$-\ln(1-x) = 2\beta \tau_2^{-1/2} \left(\frac{D}{\pi} \right)^{1/4} n_0^{1/2} (\tau_2^{1/2} - \tau_0^{1/2})$$

where: x is fraction of converted isoprene, β is a proportionality coefficient, D is diffusion coefficient ($\text{mol} \cdot \text{cm}^2 \cdot \text{min}^{-1}$), $\tau_0^{1/2}$ and $\tau_2^{1/2}$ are initial and final instants of the polymerization reaction. In the case of isoprene polymerization in absence

Card 2/3

L 50199-65

ACCESSION NR: AT5019502

of a solvent, the depth of polymerization in the initial period (7-10% conversion) is proportional to time to the first power according to the formula

$$x = \frac{a \cdot k_1 \cdot k_2 \cdot K \cdot n_0^2 m_0}{k_3 (1 + K n_0)} (t - t_0)$$

and the depth of polymerization in the subsequent diffusion-limited period is proportional to the square root of the initial and final reactor times according to the formula

$$x = 28 \cdot \left(\frac{D}{\pi} \right)^{1/4} n_0^{1/2} (t^{1/2} - t_0^{1/2})$$

The polymer molecular weight is practically independent of conversion (depth of polymerization)--it increases with temperature and monomer concentration--and it is almost independent of catalyst concentration. The polymer microstructure is insensitive to changes in reaction temperature and to variations in monomer or catalyst concentration. Orig. art. has: 2 tables, 18 figures, and 10 formulas.

ASSOCIATION: none

SUBMITTED: 24Oct64

ENCL: 00

SUB CODE: MT, GC

NO REF Sov: 005

OTHER: 001

Card 3/3

MOSKVIN, Yu.V. (Moskva); CHESNOKOVA, N.N. (Moskva)

Spectroscopic study of an argon flow as it leaves the nozzle
of a plasmatron. Teplofiz. vys. temp. 3 no.3:370-375 My-Je '65.
(MIRA 18:8)

BABITSKIY, B.D.; KORMER, V.A.; LOBACH, M.I.; CHESNOKOVA, N.N.

Role of $\overline{\alpha}$ -complexes in the coordination-ionic polymerization
of butadiene. Dokl. AN SSSR 160 no.3:591-593 Ja '65.
(MIRA 18:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo
kauchuka im. S.V. Lebedeva. Submitted July 13, 1964.

BABITSKIY, B.D.; KORMER, V.A.; PODDUBNYY, I.Ya.; SOKOLOV, V.N.; CHESNOKOVA,
N.N.

Tracer method study of the stereospecific polymerization of butadiene
in an aqueous medium in the presence of rhodium chloride. Dokl. AN
SSSR 162 no. 5:1060-1062 Je '65. (MIRA 18:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo
kauchuka im. S.V.Lebedeva. Submitted November 30, 1964.

L 7648-66 EWT(m)/EPF(c)/EWP(j) RM
ACC NR: AP5025036

SOURCE CODE: UR/0286/65/000/016/0084/0084

AUTHORS: Babitskiy, B. D.; Kormer, V. A.; Lapuk, I. M.; Lobach, M. I.; Chesnokova, N. N.

ORG: none

TITLE: Method for obtaining cis-1,4-polybutadiene rubber. Class 39, No. 173948
announced by All-Union Scientific Research Institute for Synthetic Rubber im.
academician S. V. Lebedev (Vsesoyuznyy nauchno-issledovatel'skiy institut
sinteticheskogo kauchuka)

SOURCE: Byulleten' izobretений и tovarnykh znakov, no. 16, 1965, 84

TOPIC TAGS: rubber, butadiene, polymer, polybutadiene rubber, catalyst, polymerization

ABSTRACT: This Author Certificate presents a method for obtaining cis-1,4-polybutadiene rubber by thermal polymerization of butadiene in the presence of a catalyst. The catalyst consists of tetranickelcarbonyl and metal-containing compounds. The metal-containing compounds used are transition metal salts of group V or VI soluble in hydrocarbons, for instance, vanadium tetrachloride, vanadium

Card 1/2

UDC: 678.762.2

L 7648-66

ACC NR: AP5025036

oxytrichloride, or hexachlorotungsten.

SUB CODE: //

SUBM DATE: 18Apr64

m
Card 2/2

L 8919-66 EWT(1)/EWT(m)/ETC/EPF(n)-2/EWG(m)/EPF(t)/EPF(b) LIP(c) JD/AT

ACC NR: AP5016692

SOURCE CODE: UR/0294/65/003/003/0370/0375

AUTHOR: Moskvin, Yu. V. (Moscow); Chesnokova, N. N. (Moscow)

ORG: none

TITLE: Spectroscopic investigation of an argon stream at the orifice exit of a plasmatron

27

SOURCE: Teplofizika vysokikh temperatur, v. 3, no. 3, 1965, 370-375

21, 44, 55

TOPIC TAGS: argon, plasma jet, plasma temperature, plasma diagnostics

ABSTRACT: Argon temperature at the "plasmatron" exit orifice was studied for operating current and voltage range of 130-460 a and 120-360 v respectively. Weak temperature dependence on input power, temperature distribution in the plasma stream arc (determined by using Abel's inversion), and the existence of equilibrium are established. The measurements were taken 3-4 mm away from the exit, where static pressure is assumed to be atmospheric. The spectral intensity of eight neutral argon lines was used to determine the temperature where electron density ($> 10^{16} \text{ cm}^{-3}$) was obtained from H_β broadening. The discrepancy did not exceed 150° for all eight lines. The temperature measurements were also checked using the absolute intensity of recombination radiation, which at an operating temperature of about 10,000°K dominates continuum radiation from argon. The results show that if input power is increased by

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Z

L 8919-66

ACC NR: AP5016692

a factor greater than 10, the temperature of argon plasma at the exit changes from 9,000°K to 11,000°K. The empirical radial temperature distribution formula is also given. In conclusion, the authors express gratitude to P. A. Dobashin and V. S. Roman'ychev for their helpful comments, and to L. I. Smirnov and Z. N. Rostovtsevaya for analyzing the experimental data. Orig. art. has: 5 figures, 5 formulas, 2 tables.

SUB CODE: 20/ SUBM DATE: 04Jun64/ ORIG REF: 006/ OTH REF: 005

Card 2/2

10110-65 ENT(m)/ENT(j)/T (c) RU
ACC NRI AP6009488

UR/0020/66/167/001/0099/0101

AUTHOR: Grinberg, A.A. (Academician); Babitskiy, B.D.; Bezhan, I.P.; Varshavskiy, Yu.S.; Gel'fman, M.I.; Kiseleva, N.V.; Kormer, V.A.; Smolenskaya, D.B.; Chesnokova, N.N.

ORG: All-Union Scientific Research Institute for Synthetic Rubber im. S.V. Lebedev (Vsesoyuzny nauchno-issledovatel'skiy institut sinteticheskogo azukha); Institute of General and Inorganic Chemistry im. N.S. Kurnakov of the AN SSSR (Institut obshchey i neorganicheskoy khimii AN SSSR)

TITLE: The effect of the composition of rhodium(III) complexes on their catalytic activity in the process of stereospecific polymerization of butadiene-1,3 in an aqueous medium

SOURCE: AN SSSR. Doklady, v.167, no.1, 1966, 99-101

TOPIC TAGS: rhodium compound, polymerization catalyst, butadiene, aqueous solution

ABSTRACT: The complexes to be investigated, synthesized by known methods, were analyzed for their rhodium and halide content. The polymerization was carried out by methods described in a previous article. A table shows results of using fifteen different rhodium complexes as catalysts in the polymerization of butadiene in an aqueous emulsion at 50 and 70°. It follows from these results that the gradual replacement

Cord 1/2 UDO: 66.095.264:678.672:661.897

L 23110-66

ACC NR: AP6009488

of chlorine ions by ammonia molecules leads to a decrease in the polymerization rate. The catalytic activity of bromine derivatives also decreases with an increasing accumulation of ammonia molecules in the inner sphere of the complex. Comparison of the catalytic effect of the halides of rhodium shows that the chlorides and the bromides of rhodium have almost identical catalytic ability and stereospecificity. The iodide is inactive at 50°, while in its presence at 70° there takes place a polymerization process of the free radical type. With the presence of three ammonia molecules in the inner sphere of the iodide the polymerization proceeds by a coordination-ionic mechanism. Results also show that the stereospecific polymerization of butadiene in the presence of the Rh³⁺ complexes studied leads to the formation of trans-1,4-polybutadiene, regardless of the number and nature of the bonds. Orig. art. has: 1 figure and 1 table.

SUB CODE: 07/ SUBM DATE: 12Jul65/ ORIG REF: 003/ OTH REF: 005

Cord

2/2

CHESNOKOVA, Nina Grigor'yevna; SABLINA, Lyudmila Sergeyevna; PETROVA, V.L., inzh., red.; KHITROVA, N.A., tekhn.red.

[Lighting engineering handbook for designing lighting in repair shops and industrial enterprises of railroad transportation]
Svetotekhnicheskii spravochnik dlia proektirovaniia osveshcheniia depo i promyshlennyykh predpriiatii zheleznyodorozhного transporta. Moskva, Vses.izdatel'sko-poligr.ob"edinenie M-va putei soobshcheniya, 1961. 142 p.

(MIRA 14:6)

(Railroads--Lighting) (Electric lighting)

~~CHESNOKOVA, R.A., aspirant.~~

Principle of personal material interest and its utilization in
determining wages for railroad transportation workers. Trudy MTMI
no.7:53-67 '57. (MIRA 11:5)
(Railroads--Salaries, pensions, etc.)

CHESNOKOVA, R.A., assistent

Planning the correct correlation between the rates of growth
of labor productivity and wages in railroad transportation.
Trudy MIIT no.136:35-42 '61. (MIRA 15:1)
(Railroads--Salaries, pensions, etc.)
(Railroads--Labor productivity)

CHESNOKOVA, R.A., assistant

Further improvement of wage systems for the locomotive crew
workers engaged in freight traffic. Trudy MIIT no.136:43-50
'61. (MIRA 15:1)

(Railroads—Salaries, pensions, etc.)
(~~Railroads~~, Freight)

AKIMOVA, G.Yu.; LIASHKO, V.D.; ROMASHKINA, Ye.V.; CHESNOKOVA, R.P.

Lesions of the oral cavity in secondary and tertiary syphilis.
Vest.derm.i.ven. 34 no.3:59-61 My-Je '60. (MIRA 13:10)

(SYPHILIS) (MOUTH—DISEASES)

KUDRYAVTSEVA, N.A.; TARASOV, A.I.; Prinimali uchastiye: SHCHIPANOVA, A.I.;
RYASOVA, Ye.S.; CHESNOKOVA, R.I.

Chromatographic investigation of gaseous hydrocarbons dissolved in
oil". Khim i tekhn. topl. i masel 9 no.5:32-36 5 My'64
(MIRA 17:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke
nefti i gaza i polucheniyu iskusstvennogo zhidkogo topliva (for
Kudryavtseva, Tarasov).

LACHINOV, S.S.; RUBINSHTEYN, A.M.; AKIMOV, V.M.; KLYACHKO-GURVICH, A.L.;
KONYUKHOVA, I.N.; KUZNETSOV, L.D.; LEVITSKAYA, T.T.; PRIBYTKOVA, N.A.;
SLINKIN, A.A.; CHESNOKOVA, R.V.

Complex investigation of iron catalysts for ammonia synthesis.
Kin. i kat. 5 no.3:478-489 My-Je '64.

(MIRA 17:11)

1. Institut organicheskoy khimii AN SSSR i Gosudarstvennyy institut
azotnoy promyshlennosti.

L 53759-65 EMT(m)/EPF(c)/EPR/EMP(j)/T/EMP(t)/EMP(d) PC-4/Pr-4/Ps-4
LJP(c) JD/RM

ACCESSION NR: AP5011685

UR/0195/65/006/000 0228/0242
541.180.24

Author: Gorbunov, A. I., Laktionov, V. M.
Editor: v. 6.

TITLE: Nitrogen and hydrogen chemisorption on ammonia synthesis iron catalyst
Part:

SOURCE: Kinetika i kataliz, v. 6, no. 2, 1965, 338-342

TOPIC TAGS: nitrogen chemisorption, hydrogen chemisorption, nitrogen, hydrogen,
ammonia synthesis, ammonia, iron catalyst

ABSTRACT: Nitrogen and hydrogen chemisorption was studied at 200° and 475°C over unpromoted and promoted ammonia synthesis iron catalysts. Al_2O_3 , CaO , and SiO_2 were used as promoters. The BET specific surface areas of the unpromoted iron catalysts were: iron catalyst with 0.05 wt. % of Al_2O_3 - 17.5; K_2CO_3 -promoted iron catalyst with 8.6 wt. % Al_2O_3 - 17.5; unpromoted catalyst with 2.2 wt. % CaO - 17.5; unpromoted catalyst with 2.2 wt. % SiO_2 - 17.5; iron catalyst with 0.36 wt. % CaO , and 0.27 wt. % SiO_2 - 17.5.

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L 53759-1
ACCESSION #F: AHS/11/1985

sorbed nitrogen and hydrogen are proportional to the catalyst concentration. The parallelism in behavior of nitrogen and hydrogen suggests that the nature of surface-bound compound of nitrogen is similar to that of hydrogen from which the rate of nitrogen adsorption is determined. It is also found that the proportion of each catalyst, the concentration of which is higher, is well with the Rybníkář's theory. Long and Hahn¹ have given the formula.

ASSOCIATION: Nauchno-issledovatel'skiy institut azotnyx promstv i nauchno-tekhnicheskoye obshchestvo v Neftegazovoj promstvi

ENCL: 00

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000308720018-2"

CHESNOKOVA, S.A.

Regulation of venous circulation. Trudy Vses. ob-va fiziol. biokhim.
i farm. 2:81-83 '54. (MIRA 8:7)

1. Kafedra normal'noy fiziologii Kazakhskogo gosudarstvennogo medi-
tsinskogo instituta im. V.M. Molotova.
(BLOOD PRESSURE, physiology,
regulation of venous pressure)

CHESNOKOVA, S. A.
USSR/Medicine - Physiology

FD-924

Card 1/1 Pub 33-7/29

Author : Chesnokova, S. A.
Title : On the question of control of venous pressure
Periodical : Fiziol. zhur. 40, 302-309, May/Jun 1954
Abstract : Experiments were conducted to determine what changes various stimulants produce by their action on the organism of dogs. Observations were limited to carotid artery and jugular, portal, and femoral veins. It was noted that arterial pressure decreased when electric current was applied in the area of bifurcation of the carotid artery; venous pressure, however, increased in all three veins. When adrenalin was introduced into the blood stream, arterial pressure and pressure in portal vein decreased. When acetylcholine was introduced into blood stream, decrease in arterial pressure was noted; pressure in femoral vein increased and pressure in portal vein increased gradually and also decreased gradually. No marked change in pressure was noted in jugular vein. Diagrams. Ten Soviet and eight non-Soviet references.
Institution : Chair of Physiology, Medical Institute imeni V. M. Molotov (Alma-Ata)
Submitted : July 10, 1953

CHESNOKOVA, S. A.
USSR/Medicine - Physiology

FD-2552

Card 1/1 Pub. 17-5/23

Author : Chesnokova, S. A.

Title : The effect of removal of the cortex of the cerebral hemispheres of the brain on the morphological composition of the peripheral blood in dogs

Periodical : Byul. eksp. biol. i med. 5, 17-20; May 1955

Abstract : Investigated the blood picture of dogs at various periods after removal of the cerebral cortex and studied the course of the leucocytic reaction in the above dogs resulting from the administration of sodium nucleinate. Graphs. Three references, all USSR (since 1940).

Institution : Chair of Physiology (Head - Prof. E. A. Asratyan) of the Second Moscow Medical Institute imeni I. V. Stalin

Submitted : July 3, 1954 by S. A. Sarkisov, Member of the Academy of Medical Sciences USSR

USSR/Human and Animal Physiology General Problems.

T

Abs Jour: Ref Zhur-Biol., No 8, 1958, 36078.

Author : Chesnokova, S.A.

Inst :

Title : The Rate of Excretion of Congo Red from the Vascular Bed in Decorticated Dogs.

Orig Pub: Bul. eksperim. biol i meditsiny, 1957, No 1, prilozhenie, 30-32.

Abstract: The excretion of Congo Red from the vascular bed (a 2% solution of the dye, 0.25 mg/kg intravenously) in decorticated dogs (7) proceeded remarkably slower than normal. So, that ninety minutes after the injection of the dye, its blood content in operated dogs was 66% as compared with 28% in non-operated dogs. The cerebral cortex has an effect on the activity of the reticulo-

Card : 1/2

3

CHESNOKOVA, S.A.

DAVYOVSKY, I.V.; DANIOVA, Y.M.; GULKA, I.A.; POKROVSKAYA, L.YA.
PYATNITSKIY, N.N.; TIRZAKOV, Yu.G.; KHOKHLOVA, Z.Yo.; CHESNOKOVA, S.A.
Experimental morphological analysis of tissue systems of the body
in "decorticated" animals. Arkh. pat. 22 no. 8:18-34 '60.
(MIRA 14:1)
(CEREBRAL CORTEX)

TSAREGORODTSEV, Gennadiy Ivanovich, kand. filos. nauk; CHESNOKOVA,
Sof'ya Aleksandrovna, kand. med. nauk; VORONOV, A.I., red.;
ATROSHCHENKO, L.Ye., tekhn. red.

[Philosophical problems of medicine] Filosofskie problemy me-
ditsiny. Moskva, Izd-vo "Znanie," 1962. 46 p. (Novoe v zhizni,
nauke, tekhnike. II Seria: Filosofiia, no.14) (MIRA 15:7)
(MEDICINE—PHILOSOPHY)

GUBAR', A.V., dots.; KOSITSKIY, G.I.; KULIKOVA, V.S.; MAL'TSEVA,
T.A.; MARKOVA, A.A.; MILYUTINA, L.A.; ORESHUK, F.A.;
PETROV, S.I.; CHESNOKOVA, S.A.; ASRATYAN, E.A., prof., red.;
OKHNYANSKAYA, L.G., red.; BUKOVSKAYA, N.A., tekhn. red.

[Manual on practical exercises for a course in normal
physiology] Rukovodstvo k prakticheskim zaniatiam po
kursu normal'noi fiziologii. [By] A.V.Gubar' i dr. Mo-
skva, Medgiz, 1963. 303 p. (MIRA 17:3)

1. Chlen-korrespondent AN SSSR(for Asratyan).

*

CHESNOKOVA, S.A.

Reactivity of decorticated animals. Trudy Un. druzh. nar. 7.
Vop. med. no.1:105-114 '64. (MIRA 18:9)

1. Kafedra normal'noy fiziologii Universiteta Druzhby Narodov
imeni Patrisa Lumumby, Moskva.

CHESNOKOVA, S.A.; KHOVANSKAYA, M.G. (Moskva)

Content of ascorbic acid in the brain of rats following
cerebral decortication. Pat. fiziol. i eksp. terap 7 no.1:
79 Ja-F'63. (MIRA 16:10)

1. Iz kafedry fiziologii (zav. - prof. G.I.Kositskiy) II
Moskovskogo meditsinskogo instituta imeni N.I.Pirogova.
(ASCORBIC ACID) (CEREBRAL CORTEX)

CHESNOKOVA, S.Ye. (Moskva)

"Category of causality in physics" by G.A.Svechnikov. Reviewed by
S.E.Cheznokova. Priroda 51 no.5:122-123 My '62. (MIRA 15:5)
(Causation) (Physics-Philosophy) (Svechnikov, G.A.)

L 22838-66 EWT(m) DIAAP

ACC NR: AP6004941

SOURCE CODE: UR/0056/66/050/001/0232/0242

59
57

AUTHOR: Priyorotskiy, I. A.; Chesnokov, S. V.

ORG: Physicotechnical Institute GKIAE SSSR (Fiziko-tehnicheskiy institute GKIAE SSSR)

TITLE: Concerning pairing with nonzero orbital angular momentum

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 50, no. 1, 1966,
232-242

TOPIC TAGS: superconductivity, superfluidity, excited state, forbidden band, anisotropic medium, spin orbit coupling

ABSTRACT: The authors investigated two-particle excitations in the case of pairing with angular momentum $l = 2$, a state that can possibly be realized in liquid He³. The study was undertaken for the purpose of examining the stability of the anisotropic state of a system with Cooper pairing more thoroughly than in the past, and to obtain additional arguments in favor of the theory with anisotropic energy gap, discussed by one of the authors earlier (Priyorotskiy, ZhETF v. 44, 1401, 1963), since stability against single- and two-particle excitations is proof that the state in question can be at least metastable. The analysis is confined to zero temperature and to weak interaction. It is shown that two-particle excitations

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L 22838-66

ACC NR: AP6004941

have no energy gap at all in such a system, and that the two-particle excitation spectrum satisfies the Landau superfluidity condition. The authors thank A. I. Larkin for numerous discussions of the problems touched upon and L. P. Pitayevskiy for a discussion of the results. Orig. art. has: 49 formulas.

SUB CODE: 20/ SUBM DATE: 02Aug65/ ORIG REF: 007/ OTH REF: 003

Card 2/2 ✓

KAZANSKIY, B.A.; GOSTUNSKAYA, I.V.; CHESNOKOVA, S.Ye.; DOBROSERDOVA, N.B.;
LEONOVA, A.I.

Stereocisomeric conversions of individual cis- and trans-3-methyl-
2-pentenes in the presence of aluminum oxide calcium amide. Nef-
tekhimiia 3 no.6:871-875 N-D '63. (MIRA 17:3)

1. Moskovskiy gosudarstvennyy universitet im. Lomonosova, kafedra
khimii nefti.

CHESNOKOVA Tat'yana Ivanovna; MORDOVSKIYE, V.P., red.; PROZOROVA, K.I.,
tel'mn, red.

[First Communist voluntary labor service in the Urals, 1919-1920].

Pervye kommunisticheskie subbotniki na Urale, 1919-1920 gg.

[Cheliabinsk] Cheliabinskoe knizhnoe izd-vo, 1957. 77 p.

(Ural Mountain region—labor service) (MIRA 11:8)

S/035/62/000/003/042/053
A001/A101

AUTHORS: Chesnokova, T. S., Grushinskiy, N. P.

TITLE: Gravimetric determinations in the Greenland Sea carried out from the Diesel electric-driven ship "Ob" in 1956

PERIODICAL: Referativnyy zhurnal. Astronomiya i Geodeziya, no. 3, 1962, 31, abstract 3G215 (V sb. "Morsk. gravimetrik. issledovaniya", no. 1, Moscow, Mosk. un-t, 1961, 37-40)

TEXT: In order to study conditions of gravimetric investigations in arctic waters and to measure gravity force in unexplored region, a brief Greenland expedition (August - September 1956) on the Diesel electric-driven ship "Ob" carried out observations with an Askania Werke pendulum instrument. The pendulum instrument with three minimal invar pendulums was placed into a Helmholz coil. A contact chronometer and a GAISh experimental quartz clock (RZhAstr, 1960, no. 1, 1033) served as time indicators. To take into consideration perturbing accelerations and inclinations, were used two rapidly damping short-periodic (0.25 sec) pendulums, 2 long-periodic (30 sec) pendulums and a horizontal pendulum recording vertical accelerations. Observations were conducted

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S/035/62/000/003/042/053
A001/A101

Gravimetric determination in the Greenland ...

solely under favorable conditions: during quiet weather, during drift of the ship with stopped engines; vibration effect was not perceived. The measurement accuracy was mostly affected by errors in individual measurement of pendulum period (± 7.5 mgal) and errors in correction for the run of clocks (± 4.0 mgal). The mean square error of gravity anomaly turned out to be ± 8 mgal. The accuracy estimate is confirmed by the results of previous determinations by other expeditions. A comparison with data for 17 points obtained by the drifting station "North Pole 1" (1937 - 1938) has shown a systematic overestimate of anomalies by about 16 mgal.

P. Shokin

[Abstracter's note: Complete translation]

Card 2/2

CHESNOKOVA, T.S.; GRUSHINSKIY, N.P.

Gravimetric determinations in the Greenland Sea on the Ob' diesel-electric ship, 1956. Mor.grav.issl. no.1:37-40 '61.

(MIRA 15:12)

(Greenland Sea—Gravimetry)

POKROVSKIY, Nikolay Borisovich; TKACHENKO, A.D., otv. red.; CHESNOKOVA,
T.V., red.; SLUTSKIN, A.A., tekhn. red.

[Calculation and measurement of the comprehensibility of speech]
Raschet i izmerenie razborchivosti rechi. Moskva, Sviaz'izdat,
1962. 390 p.
(Speech) (Electronic measurements)

(MIRA 15:7)

YEGOROV, Konstantin Petrovich; CHESNOKOVA, T.V., red.; SLUTSKIN, A.A.,
tekhn. red.

[Principles of multichannel communications] Osnovy mnogokanal'-
noi sviazi. Moskva, Sviaz'izdat, 1962. 415 p.
(MIRA 15:11)

(Telecommunication) (Telephone lines)

PUTILOVA, I.N.; MARCHENKO, A.F.; NIKOL'SKIY, K.K.; RAYTSYN, G.A.;
RAZUMOV, L.D.; CHESNOKOVA, T.V., red.; CHURAKOVA, V.A.,
tekhn. red.

[Corrosion of metal telecommunication structures and preventive measures] Korroziia i zashchita metallicheskikh sooruzhenii sredstv sviazi. Moskva, Sviaz'isdat, 1962.
175 p. (Electric lines--Corrosion) (MIRA 16:3)
(Electric lines--Poles and towers)

CHESNOKOVA, T.V.

FILIPPOV, A.M.; PARFENOV, Yu.A.; MOROZOVA, A.D.; TOMCHIN, B.Z.; SHAFRAN, B.I.,
otv. red.; CHESNOKOVA, T.V., red.; SLUTSKIN, A.A., tekhn.
red.

[Handbook on electric measurements in municipal telephone
lines] Rukovodstvo po elektricheskim izmereniam linii go-
rodskikh telefonnykh setei. Moskva, Sviaz'izdat, 1962. 120 p.

(MIRA 16:6)

1. Russia (1923- U.S.S.R.) Upravleniye mestnoy telefonnoy
svyazi i radiofiksatsii. 2. Sotrudniki lineyno-kabel'noy labo-
ratorii Nauchno-issledovatel'skogo instituta gorodskoy i sel'skoy
telefonnoy svyazi Ministerstva svyazi SSSR (for Parfenov, Morozova,
Filippov).

(Telephone lines)
(Electric measurements--Handbooks, manuals, etc.)

CHESNOKOVA, V.D.

Maximum VHF passband of ionospheric communication lines with presence of scattering. Izv. vys. ucheb. zav.; radiotekh. 5 no.4:448-453 Jl-Ag '62. (MIRA 16:6)

1. Rekomendovana kafedroy antenn i rasprostraneniya radiovoln Leningradskogo elekrotekhnicheskogo instituta svyazi im. M.A. Bonch-Bruyevicha.
(Ionospheric propagation of radio waves)
(Radio)

S/139/65/000/001/020/027
E032/E314

AUTHORS: Prokopets, G.A., Strizhak, V.I. and Chesnokova, V.D.

TITLE: Use of a photomultiplier space charge for neutron measurements on a γ -ray background

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika, no. 1, 1963, 151 - 156

TEXT: A scintillation spectrometer is described which may be used to determine neutron spectra in the presence of a γ -ray background. The principle of the device is based on the fact that the decay time of scintillations due to neutrons (recoiled protons) and γ -rays differs by a factor of 2. Discrimination against the shorter γ -ray pulses is achieved by means of an arrangement similar to that described by Owen (Comptes Rendus du Colloque Internationale sur l'electronique nucléaire, Paris, 1, 27, 1958). In this method the space charge between the last dynodes of the photomultiplier is used to separate pulses of different lengths. A block diagram of the spectrometer is shown in Fig. 7. The $\Phi\gamma$ (FEU)-11 photomultiplier gives a linear output corresponding to the combined energy spectrum of neutrons and

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S/139/63/000/001/020/027
E052/E514

Use of a photomultiplier

γ -rays. The output of the FEU-33 photomultiplier, which is subjected to the space-charge discrimination circuit, is fed into a discriminator which is used to cut off the γ -ray pulses but leads through the neutron pulses. The latter are fed into a gating circuit which controls the kicksorter which accepts pulses from the FEU-11. The phosphor is a 30 x 20 mm stilbene crystal. The spectrometer is practically insensitive to γ -rays and its efficiency at 2 and 10 MeV is 30 and 0.6%, respectively. Spectra obtained for a Po-Be neutron source show that the apparatus has a good resolution and yields results comparable with those available in the literature. There are 8 figures.

ASSOCIATION: Kiyevskiy gosuniversitet imeni T.G. Shevchenko
(Kiev State University imeni T.G. Shevchenko)

SUBMITTED: October 28, 1961 (initially)
April 12, 1962 (after revision)

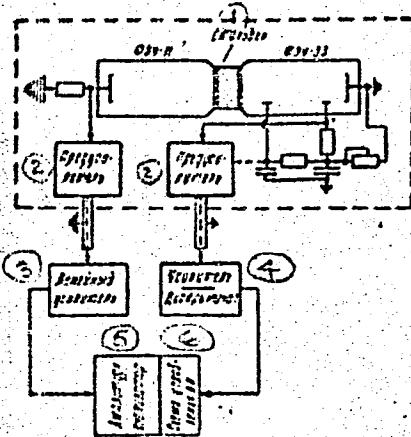
Card 2/3

S/139/65/000/001/020/027

E052/E514

Use of a photomultiplier

Fig. 7:



- 1 - Stilbene
- 2 - Preamplifier
- 3 - Linear amplifier
- 4 - Discriminator
- 5 - Ricksorter
- 6 - Gating circuit

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CHESNOKOVA, V.D.

Spatial correlation of signals in long-distance microwave
signal propagation on account of E-region dissipation. Truly
ucheb. inst. sviazi no.14:43-54 '63. (MIRA 17:9)

1. Leningradskiy elektrotekhnicheskiy institut im. prof.
M.A. Bonch-Bruyevicha.

CHESNOKOVA, V.D.

Transmission distortion in long-distance microwave propagation.
Trudy ucheb. inst. sviazi, no.16:27-38 '63. (MIRA 17:10)

L. Lenin'skiy elektrotekhnicheskiy institut svyazi im. prof.
M.A.Ronch-Bryayevicha.

CHESNOKOVA, V.I., otv. red.; BALAKIREV, A.F., red.; SHEFER, G.I.,
tekhn. red.

[Safety engineering regulations for work on long-distance
municipal telecommunication and wire broadcasting lines] Pra-
vila tekhniki bezopasnosti pri rabotakh na mezhdugorodnykh, go-
rodskikh kabel'nykh liniakh sviazi i kabel'nykh liniakh radio-
fiketsii. Moskva, Gos.izd-vo po voprosam sviazi i radio, 1960. 99 p.
(MIRA 15:1)

1. Russia (1923- U.S.S.R.) Ministerstvo sviazi. Laboratoriia
okhrany truda.

(Telephone lines--Safety measures)
(Electricity, Injuries from)

V.S. CHESNOKOVA and LIASS, MIRIAM AL'BERTOVNA

Bibliograficheskii ukazatel' po energetike (teplotekhnika); neperiodicheskaiia
literatura 1917-1928 g.
Moskva, Izd-vo Telotekhn. inta, 1929. viii, 250 p.

Bibliographical index to power engineering (thermotechnics); nonperiodical
literature, 1917-1928.

DLC: Z5853.H27L5

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library
of Congress, 1953.

CHESNOKOVA, Ye.G.

Synthetic action of the nervous system of the honeybee. Nauch.
soob. Inst. fiziol. AN SSSR no.1:81-83 '59. (MIRA 14:10)

1. Laboratoriya fiziologii nizshikh zhivotnykh (zav. - M.Ye.Lobashev)
Instituta fiziologii imeni Pavlova AN SSSR.
(CONDITIONED RESPONSE) (BES)

CHESNOKOVA, Ye.G.

Conditioned responses of bees to chains of visual stimuli. Trudy
Inst. fiziolog. 8:214-220 '59.
(MIRA 13:5)

1. Laboratoriya fiziologii nizshikh zhivotnykh (zaveduyushchiy -
M.Ye. Lobashev) Instituta fiziologii im. I.P. Pavlova AN SSSR.
(BESS) (CONDITIONED RESPONSES)

CHESNOKOVA, Ye.G.

Conditioned response to the chain of visual stimuli in
honey-laden bees returning to the hive. Zool.zhur. 39
no.2:229-235 F '60. (MIRA 13:6)

1. Laboratory of Physiology of Lower Animals, Institute of
Physiology, U.S.S.R. Academy of Sciences, Leningrad.
(Bees) (Conditioned response)

LOPATINA, N.G.; CHESNOKOVA, Ye.G.

Motor stereotype of conditioned reflexes and the food procur-
ement activity in the honey bee. Trudy Inst. fiziol. 10:
245-254 '62 (MIRA 17:3)

1. Laboratoriya fiziologii nizshikh zhivotnykh (zav. - M.Ye.
Lobashev) Instituta fiziologii imeni Pavlova AN SSSR.

LOBASHEV, M.Ye.; LOPATINA, N.G.; NIKITINA, I.A.; CHESNOKOVA, Ye.G. (Leningrad)

Physiological mechanism of the orientation of honeybees in space.
Usp. sovr. biol. 53 no.2:152-168 Mr-Ap '62. (MIRA 15:5)
(BEEs) (ORIENTATION)

LOPATINA, N.G.; CHESNOKOVA, Ye.L.

Formation of a stereotype or conditioned alimentary reflexes in
honeybees (*Apis mellifera L.*). Nauch.sobr. Inst.fiziol. AN SSSR
no.3:107-109 '65. (MIRA 18:5)

J. Gruppa fiziologii nizshikh zhivotnykh (zav. - N.G.Lopatina)
Instituta fiziologii imeni Pavlova AN SSSR.

LOBASHEV, M.Ye.; LOPATINA, N.G.; NIKITINA, I.A.; CHESNOKOVA, Ye.G.

Simultaneous action of acoustic and tactile stimuli on the loco-motive and flying activity of the honeybee *Apis melliferna* (Hymenoptera, Apidae). Ent. oboz. 44 no.3:557-562 '65. (MIRA 18:9)

1. Institut fiziologii imeni I.P.Favlova AN SSSR, Koltushi Leningradskoy oblasti.

LOPATINA, N.G.; NIKITINA, I.A.; CHESNOKOVA, Ye.G.

Conditioned reflex as a mechanism of the functional succession
between the generations of social insects (*Apis mellifera L.*).
Zool. zhur. 44 no.10:1512-1515 '65.

(MIRA 18:11)

1. Institut fiziologii AN SSSR, Leningrad.

~~SECRET~~
CHESNOV, A.P., nachal'nik.

Prospective development of the Moscow motion-picture network.
Gor.khoz.Mosk. 27 no.12:7-10 D '53. (MERA 6:12)

1. Proizvodstvenno-tehnicheskiy sektor otdela kapital'nogo
stroitel'stva Upravleniya kul'tury Moskovskogo Soveta.
(Moscow--Motion-picture theaters) (Motion-picture
theaters--Moscow)

1. CHESNOV, A. S.
2. USSR (600)
4. Steel, Structural
7. One of the prerequisites for perfecting the technology involved in producing steel structural units, Stroi. prom., 31, No. 1, 1953.
9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Unclassified.

CHESNOV, M.P., inzh.

Investigation of asynchronous operating conditions and of
resynchronization of a generator after loss of dynamic
stability. Elektrichesko no.6:21-25 Je '60.
(MIRA 13:7)

1. Energeticheskiy institut AN SSSR.
(Electric generators)

CHESNOV, M. P., CAND TECH SCI, "Investigation of conditions for the resynchronization of generators ^{Study} ~~upon~~ ^{upon} disturbance of dynamic stability." Moscow, 1961. (MIN OF HIGHER AND SEC SPEC ED RSFSR. MOSCOW ORDER OF LENIN POWER ENGINEERING INST). (KL-DV, 11-61, 223).

-194-

CHESNOV, M.P. (Moskva)

Determination of resynchronization conditions in a generator. Izv.
AN SSSR, Otd. tekhnicheskikh nauk. Energ. i avtom. no. 2:7-14 Mr.-Ap '61.
(MIRA 14:4)

(Electric generators)

CHESNOV, M.P., inzh.

Effect of the parameters of a turbine speed regulator on generator
resynchronization. Elektrichestvo no.2:24-28 P '61. (MIRA 14:3)

1. Energeticheskiy institut AN SSSR.
(Turbines) (Electric generators)

CHESNOV, M.P. (Moskva)

Resynchronization of two generators with a commensurable power rating. Izv. AN SSSR. Otd. tekhn. nauk. Energ. i avtom. no.3:
142-147 My-Je '61. (MIRA 14:7)
(Electric power distribution) (Electric generators)

L 20771-65 ASD(a)-5
ACCESSION NR: AP5001364

S/0310/64/000/005/0040/0011

AUTHOR: Chestnov, Ye. (Engineer, Navigator)

TITLE: Providing safety of travel for fast ships

⑤

SOURCE: Rechnoy transport, no. 5, 1964, 40-41

TOPIC TAGS: transportation, traffic, water traffic / Raketa ship, Donets 2
radiolocator

ABSTRACT: The need is cited for improved safety devices for fast ship transport on both rivers and inland seas. Dangers are reported to be on the increase because of heavy and faster traffic. The steamship Raketa-15 was used as a test case for conventional safety and navigation measures. The areas for improvement were categorized as those of the radiolocator, hydrolocator, coursefinder, mechanical steering apparatus, course stabilizer, and lighting. The Raketa-15 was equipped with Donets-2 radiolocation equipment. The performance of the Donets-2 was inadequate because of the slow rate of antenna revolution (14.1° rev/min), excessive afterglow on the screen (about 30 sec), and also because of the fact that the device was too large. Recommended specifications for radiolocators include: reduced size and weight, ease of operation, ability to detect a medium.

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L 20771-65

ACCESSION NR: AP5001364

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bucy at a distance of no less than 3-4 km, a small buoy at no less than 1.5 km, and a boat or log at 0.5 km. Other quantified recommendations included specification of resolution accuracy, distance finding and scaling, 24-hour continuous service, and 60 antenna rev/min. The following specifications are given for detecting underwater obstacles: the hydrolocator apparatus must be capable of detecting a floating log at no less than 300-m distance and a reef or a wall 10 meters thick 500 m. The vertical and horizontal sweeps recommended were 10 degrees and 15-20 degrees respectively. Gyrocompasses, gyro-induction compasses, and magnetic compasses accurate to ± 1 degree were recommended for orientation. It was suggested that autoguidance equipment of comparable reliability. Certain modifications in bow and stern lighting were suggested. The author invited criticism and comment from navigators concerning his comments. Orig. art. has: 3 equations.

ASSOCIATION: none

SUBMITTED: 00

NAME: J.

SUB CODE: 00

NO REF Sov: 000

OTHER: JDC

Card 2/2

CHESNOVA, L. V., Candidate Biol Sci (diss) -- "The history of the study of insects as pests of wheat and other bread grains by Russian scholars in the 1840's through 1880's in Russia". Moscow, 1959. 19 pp (Acad Sci USSR, Inst of the History of Natural Sciences and Technology), 150 copies (KL, No 25, 1959, 131)

CHESNOVA, L.V. (Varshava)

Contribution of Russian researchers of the 1850's - 1880's to
agricultural entomology and their role in studying insect pests
of wheat. Trudy Inst.ist.est.i tekhn. 23:178-208 '59.
(MIRA 12:10)
(Entomological research) (Wheat--Diseases and pests)

CHEENOVA, Larisa Vasil'yevna; PEREDEL'SKIY, A.A., doktor biol. nauk,
otv. red.; KORENEVA, T.A., red. izd-va; SUSHKOVA, L.A., tekhn.
red.

[Essays on the history of applied entomology in Russia]Ocherki
iz istorii prikladnoi entomologii v Rossii. Moskva, Izd-vo
Akad. nauk SSSR, 1962. 130 p. (MIRA 15:8)
(Entomological research)

CHESNOVA, L.V.

A.M.Butlerov's work on entomology. Vop.ist.est.i tekh. no.12:
171-173 '62. (MIRA 15:4)
(Butlerov, Aleksandr Mikhailovich, 1828-1886)
(Entomology)

15 (2)
AUTHORS:

Smirnov, V. V., Chesnovetskiy, M. Ya., Sov/72-59-8-14/17
Zaytsev, G. K.

TITLE:

Removal of Bricks Which Have Sunk in in the Vault of a Tunnel
Furnace (Ustraneniye kirkichey, proseyvshikh v svode tunnel'noy
pechi)

PERIODICAL:

Steklo i keramika, 1959, Nr 8, pp 46-47 (USSR)

ABSTRACT:

At the beginning of the current year 3 bricks sank in in the
Dinas vault of a tunnel furnace in the zone of maximum
temperatures at the Leningrad chinaware plant "Proletariy".
This meant that in this particular place the furnace vault was
lowered by 120-150mm, so that the piling height of the lorries
had to be diminished. This, however, was of no avail either,
since it upset the working conditions of the furnace. It was
tried to break out the bricks by means of a ram lorry, but the
attempt was unsuccessful. The authors of the present article
suggested to shoot the bricks down with a military rifle, which
was then carried out within an hour. In this way it was not
necessary to stop the operation of the furnace, which would have

Card 1/2

Removal of Bricks Which Have Sunk in in the Vault of SOV/72-59-8-14/17
a Tunnel Furnace

resulted in great production losses.

ASSOCIATION: Leningradskiy farforovyy zavod "Proletariy" (Leningrad
Chinaware Plant "Proletariy")

Card 2/2

CHESNYAK, G. Ya., Candidate Agric Sci (diss) -- "Changes in the water-salt conditions of dark-brown soils of the southern Ukrainian SSR under irrigated conditions (On the example of the Kherson Fruit Sovkhov of Glavkonserv)". Khar'kov, 1959. 24 pp (Min Agric USSR, Khar'kov Order of Labor Red Banner Agric Inst im V. V. Dokuchayev and Ukr Sci Res Inst of Soil Science), 150 copies (KL, No 24, 1959, 147)

GRINCHENKO, A.M.; CHESNYAK, G.Ya.; CHESNYAK, O.A.

Dynamics of the fertility elements of deep Chernozem soils
as related to the duration of farming and the use of fertilizers.
Pochvovedenie no. 5:27-35 My '64. (MIRA 17:9)

I. Khar'kovskiy sel'sko-khozyaystvennyy institut imeni Dokuchayeva
i Ukrainskiy nauchno-issledovatel'skiy institut pochvovedeniya
imeni Sokolovskogo.

GRINCHENKO, A.M.; CHESNYAK, G.Ya.; CHESNYAK, O.A.

Dynamics of the fertility elements of deep Chernozem soils
as related to the duration of farming and the use of fertilizers.
Pochvovedenie no.5:27-35 My '64. (MJRA 17:9)

1. Khar'kovskiy sel'skokhozyaystvennyy institut imeni Dekuchayeva
i Ukrainskiy nauchno-issledovatel'skiy institut pochvovedeniya
imeni Sokolovskogo.

CHMESSKIY

AYZENBERG, I., tekhnruk; CHMESSKIY, A., inzh.

Efficient cutting of fabrics. Prom. koop. 12 no.1:27 Ja '58.
(MIRA 11:1)

1. Kiyevskaya artel' "Shveynik."
(Kiev--Clothing industry)

Chestakova, N.P.

CHESTAKOVA, N. P.

Farmakologija i retseptura [Pharmacology and prescriptions]. Medgiz, 1953. 288 p.

SO: Monthly List of Russian Accessions. Vol. 6 No. 7 October 1953

CHESTKOVSKIY, V. V.

112-1-756

Translation from: Referativnyy Zhurnal, Elektrotehnika, 1957, Nr 1, p. 125 (USSR)

AUTHOR: Chestkovskiy, V. V.

TITLE: Annealing of Copper During the Repairing of Rotor Windings of Large Induction Motors (Otschig medi pri remonte rotornykh obmotok krupnykh asinkhronnykh dvigateley) Proposal of G. L. Braymaster (Predlozheniye G. L. Braymastera)

PERIODICAL: Sbornik rats. predlozheniy. M-vo elektrotekhn. prom-sti SSSR, 1955, Nr 58, pp. 17-18

ABSTRACT: A method of annealing the front parts of rotor rods taken out from the semi-closed slots for re-insulating is submitted. The method eliminates the burning of the tinning and the time lost in its cleaning. The method consists in annealing the rod bends while the tinned end is placed Card 1/1 in a tank with running water. A saving of tin is obtained. I.A.R.

Chestkovskiy, V.

112-1-710

Translation from: Referativnyy Zhurnal, Elektrotehnika, 1957, Nr 1,
p. 119 (USSR)

AUTHOR: Chestkovskiy, V. V.

TITLE: Rearranging Batches of Stator Iron of Large Electrical
Machinery (Pereshikhtovka zheleza statorov krupnykh elek-
tricheskikh mashin) Proposal of I. M. Tipografshchik
(Predlozheniye I.M. Tipografshchika)

PERIODICAL: Sbornik rats. predlozheniy M-vo elektrotekhn. prom-sti SSSR,
1955, Nr 58, p. 19

ABSTRACT: The production technique of rearranging laminated steel to
eliminate the necessity of producing a plate for the guid-
ing rules used in batching is described. In the new pro-
cess not all the sheets but only the parts left for placing
the guiding lines in the slots are removed. The rearrang-
ing is done first on one side of the stator. The stator is
then turned over and the other side of the batches completed.

I.A.R.

Card 1/1

112-57-7-14445

Translation from: Referativnyy zhurnal, Elektrotehnika, 1957, Nr 7, p 99 (USSR)

AUTHOR: Chestkovskiy, V. V.

TITLE: Checking Dimensions and Temperature of Turbogenerator Rotor Bands
Under Heating Conditions (Suggestion by V. V. Chestkovskiy and Ye. L.
Marshak) (Kontrol' za razmerami i temperaturoy bandazhey rotorov turbo-
generatorov pri ikh nagreve. Predlozheniye V. V. Chestkovskogo, Ye. L.
Marshaka)

PERIODICAL: Sb. rats. predlozh. M-vo elektrotekhn. prom-sti SSSR (Collection
of Efficiency Suggestions, Ministry of the Electrical-Engineering Industry,
USSR), 1956, Nr 1(59), p 12

ABSTRACT: Suggested and tried in practice is a new method of checking forged,
jointless bands which are heated and tightly fitted on the end-connections of
turbogenerators. The band fit diameter is checked in various directions by a
constant rod gauge. Uniformity of heating is secured by thermocouple measure-
ments. Permissible temperature irregularity is 20° C.

L. A. Ya.

Card 1/1

CHESTNAYA, I. I.

Light filter for eliminating single spectral lines of emission spectra. L. A. VENIGMANN AND I. I. CHESTNAYA. *J. Tech. Phys. (U. S. S. R.)* 8, 400-401(1953) —The composite filters for the lines $\lambda\lambda = 4047, 4170, 4339, 4461, 5461, 5700, 5710, \text{ and } 6563$ are given.
F. H. RATHMANN

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000308720018-2

CHISTOVSKA I. I.,

"Microstructure of Cumulus Clouds", Trudy GGO, No 7, 1981. (21-3)

SO: U-3132, 11 Mar 1983

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000308720018-2"

CHESTNAYA 17. 2. F
CHESTNAYA, L.L.

Error compensation for humidity data obtained by airplane-mounted
meteorographs. Trudy GGO no.32:63-68 '52. (MIRA 11:1)
(Humidity--Measurement)
(Meteorological instruments)

CHESTNAYA, I.I.

Fluctuation of the altitude of the lower limit of stratus clouds.
Trudy GGO no.54:24-30 '55. (MLRA 9:8)
(Clouds)

CHESTNAYA, I.I.

3(7) b.3

PHASE I BOOK EXPLOITATION SOV/1734

Leningrad. Glavnaya geofizicheskaya observatoriya

Issledovaniye protsessov teplo- i vlagohvema nad vodoyemami (Research in the Processes of Heat and Moisture Exchange Over Water Reservoirs) Leningrad, Gidrometredizdat, 1958. 130 p. (Series: It's: Trudy, vyp. 78) 1,375 copies printed.

Sponsoring Agency: USSR. Glavnoye upravleniye gidrometeorologicheskoy sluzhby

Ed. (title page): M.F. Timofeyev, Candidate of Physical and Mathematical Sciences; Ed. (inside book): Yu.V. Vlasova; Tech. Ed.: N.V. Volkov.

PURPOSE: This publication is intended for scientific and technical personnel working in meteorology, hydrology, hydrotechnology and related fields.

COVERAGE: This collection of articles, by several authors, reports the results of experimental work carried on in 1956 in investigating the meteorological conditions over water reservoirs. It contains the results and an examination of

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3

Research in the Processes (Cont.)	SOV/1734
Chestnaya, I.I. Air Currents Over Lake Sevan	65
Solezneva, Ye.S. The Origin of Northern Summer Winds in the Lake Sevan Basin	77
Matveyev, L.T. Airborne Studies of the Structure of Turbulent Air Currents in the Regime of Lake Sevan	84
Matveyev, L.T. Structural Function of the Vertical Velocity of the Air Current and a New Method of Computing the Coefficient of Turbulence in the Free Atmosphere	98
Vorontsov, P.A. Vertical Movements of Air Over Lake Sevan	108
Ogneva, T.A. Trial Computation of Surface Water Evaporation and the Heat-Air Exchange Over Lake Balkhash	120

Card 3/4
3

VORONTSOV, P.A.; MESHCHERSKAYA, A.V.; SLEZNEVA, Ye.S.; CHESTNAYA, I.I.;
AYNBUND, M.M.; KIRILLOVA, T.V.; NESINA, L.V.; OGREVA, T.A.;
SEROVA, N.V.; TIMOFEEV, M.P., kand.fiz.-mat.nauk; ZHDANOVA, L.P.,
red.; BRAYNINA, M.I., tekhn.red.

[Meteorological regime of Lake Sevan] Meteorologicheskii rezhim
ozerza Sevan. Pod red. M.P.Timofeeva. Leningrad. Gidrometeor.
izd-vo, 1960. 310 p. (MIRA 14:3)

1. Leningrad. Glavnaya geofizicheskaya observatoriya.
(Sevan Lake region-Meteorology)

CHESTNAYA, I.I.

Vertical distribution of temperature and specific humidity over
the basin of Lake Sevan. Trudy GGO no.106:44-49 '61. (MIR^ 14:10)
(Sevan Lake region--Atmospheric temperature)
(Sevan Lake region--Humidity)

CHESTNAYA, I.I.; VORONTSOV, P.A.

Distribution of clouds in the basin of Lake Sevan. Trudy GG0
no.106:50-54 '61. (MIRA 14:10)
(Sevan Lake region--Clouds)

CHESTNAYA, I.I.

Breezes of the Tsimlyansk Reservoir. Trudy GGO no.135:117-119
'62. (MIRA 15:8)
(Tsimlyansk Reservoir--Winds)

CHESTNAYA, I.I.

Practice of systematic sketching of cloud distribution for purposes of evaluating the effect of reservoirs. Trudy GGO no.135: 129-134 '62. (MIRA 15:8)

(Tsimlyansk Reservoir region--Clouds)
(Sevan Lake region--Clouds)

KIRILLOVA, T.V.; TERVINSKIY, V.N.; CHESTNAYA, I.I.

Cloud observations above reservoirs. Trudy GGO no.95:30-32
'63. (MIRA 16:7)
(Clouds)

ACCESSION NR: AT4043160

S/2531/64/000/154/0078/0084

AUTHOR: Chestnaya, I. I.

TITLE: Experience in the use of pilot balloons with a suspended base

SOURCE: Leningrad. Glavnaya geofizicheskaya observatoriya. Trudy*, no. 154.
Voprosy* fiziki atmosfery* (Problems in atmospheric physics), 78-84 1984

TOPIC TAGS: meteorology, atmospheric physics, geophysics, theodolite, pilot balloon, weather balloon

ABSTRACT: This article describes experiments with pilot balloons having a suspended base, a method proposed by Hergesell (Beitrage zur Physik der freie Atmosphare, Bd VI, H 4, 1914). In this method a base, whose length is the principal value for computation of the distance of the balloon from the site of launching and its height at a particular time, is carried aloft together with it instead of being measured on the ground as in ordinary base measurements. The base is suspended from a cable to which markers are attached at precisely measured distances from the center of the balloon. These markers are of different colors, depending on the state of the sky; two or three such marks are attached, as shown in Fig. 1 of the Enclosure. The longer the base, the greater the accuracy of determination of its angular dimensions. The theodolite which is usually used must

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ACCESSION NR: AT4043160

be modified somewhat for use with this method. A special grid, as shown in Fig. 2 of the Enclosure, is inserted in the eyepiece. This grid is a series of concentric circles of different radii, corresponding to different angular dimensions of the viewed object. Formulas are presented for use in determining height at the time of reading. For convenience, the arbitrary ranges D' and D'' are computed in advance for different values of E (angular dimensions of the base) and entered in tables. The processing of observations therefore involves reading the values of D' or D from the tables corresponding to the observed graduations of the grid and multiplying by the sines of the corresponding vertical angles. Processing of data is only slightly more complex than the processing of ordinary observations, and is considerably simpler than the processing of base observations. Observers require only limited training. The initial investigations of the method were made 30 years ago but were then forgotten. The Glavnaya geofizicheskaya observatoriya (Main Geophysical Observatory) launched 100 balloons in the Crimea in 1961 and in 1962 checked the results in still two other areas having different geographic conditions. In certain cases, the method should not be used (strong turbulence, a calm or weak winds), but otherwise, the method is superior to that usually used. Orig. art. has: 5 formulas, 5 figures and 2 tables.

ASSOCIATION: Glavnaya geofizicheskaya observatoriya, Leningrad (Main Geophysical Observatory)
Card 2/5

ACCESSION NR: AT4043160

SUBMITTED: 00

ENCL: 02

SUB CODE: ES

NO REF SOV: 004

OTHER: 003

Card 3/5

ACCESSION NR: AT4043160

ENCLOSURE: 01

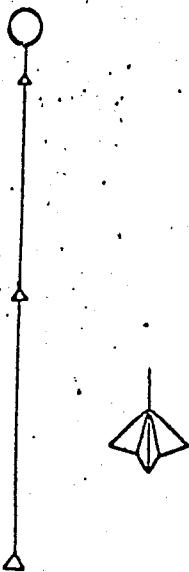


Fig. 1. Pilot balloon with suspended base. A marker is shown separately at the
right.
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ACCESSION NR: AT4043160

ENCLOSURE: 02

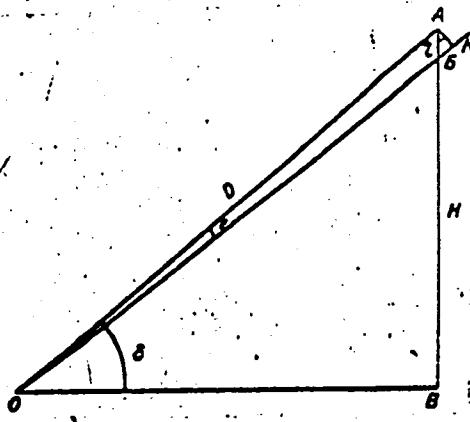


Fig. 2. Eyepiece of measurement grid.

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L 5018-66 EWT(1)/FCC GW
ACC NR: AT5024888

SOURCE CODE: UR/2531/65/000/171/0096/0103

AUTHOR: Chestnaya, I. I.

44,55

39

Q+1

ORG: Main Geophysical Observatory, Leningrad (Glavnaya geofizicheskaya
observatoriya) 44,55

TITLE: On the question of determining wind conditions on helicopter routes of
Crimea

SOURCE: Leningrad. Glavnaya geofizicheskaya observatoriya. Trudy, no. 171, 1965.
Rezul'taty issledovaniya atmosfernoy turbulentnosti na vertoletnykh trassakh
(Results of the investigation of atmospheric turbulence on helicopter routes),
96-103

TOPIC TAGS: wind, atmosphere, atmospheric turbulence, mountain, atmospherics,
meteorology 12,44,55

ABSTRACT: Data describing the wind characteristics along the air route from
Simferopol' to Yalta are presented. They were collected in the spring of 1962 in
a comprehensive study of flight conditions in the region. The research expedition

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ACC NR: AT5024888

made use of a specially equipped airplane and a helicopter. The necessity for performing the research comes from two facts: 1) the region needs the services of aircraft and, in particular, the services of helicopters, 2) the weather forecasting quality has been inadequate for the purposes of air safety (only one weather station exists in the region). Experiments showed that the information on wind directions, released at this station (Simferopol') was not always applicable along the entire air route. For example, experimental stations at Orlinoye, Sokolinoye, and Yalta obtained data showing that the wind direction varies greatly from the observations at Simferopol' (see Fig. 1). Measurements were also taken

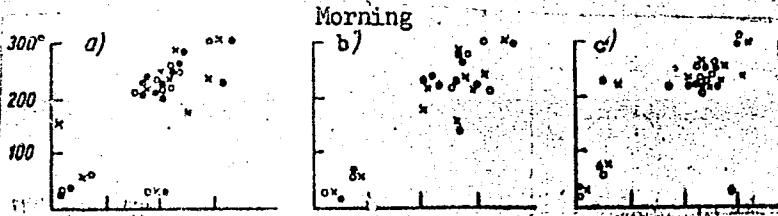


Fig. 1. Wind direction along the route for various directions at Simferopol'.
a- Orlinoye, b- Sokolinoye,
c- Yalta, 1- 1000 m above
sea level, 2- 1250 m,
3- 1500 m

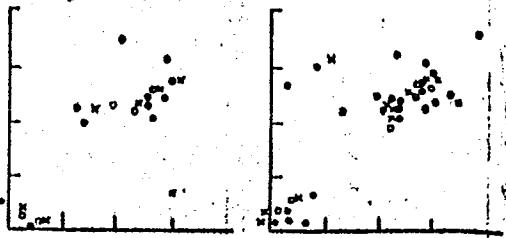
Card 2/4

L 5018-66

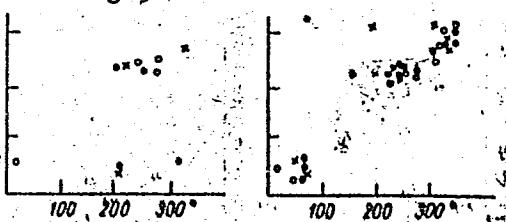
ACC NR: AT5024888

8

Daytime,



Evening



Card 3/4